

Author index

AARS, H. (see JENSEN KJEILEN, J.C.)
AASLY, J. (see LANDGREN, S.)
AASS, H. (see SKOMEDAL, T.)
ABER, V. (see MAXWELL, D.L.)
AGNATI, L.F. (see von EULER, G.)
AHRÉN, B. (see SKOGlund, G.)
ALEN, M. (see VIITASALO, J.T.)
ALI, M. (see THULESIUS, O.)
ANDÉN, N.-E. & GRABOWSKA-ANDÉN, M. Increased motor activity following combined stimulation of B-HT 920-sensitive and D-1 dopamine receptors, 157
ANDERSSON, S.E. Responses to antidromic trigeminal nerve stimulation, substance P, NKA, CGRP and capsaicin in the rat eye, 371
ANGELO-KHATTAR, M. (see THULESIUS, O.)
ASK, J.A., STENE-LARSEN, G., HELLE, K.B. & RESCH, F. Functional α -adrenoceptors in human atrial preparations in the presence of β -receptor blockade, 439
ÄNGGÅRD, A. (see LUNDBERG, J.M.)
ARNQVIST, H.J. & DAHLKVIST, H.H. Effect of *in vivo* exposure to insulin on glucose metabolism in rat aorta, 109
ARNQVIST, H.J. (see BORNFELDT, K.E.)
AUGUSTINSSON, O. (see JÓNASSON, H.)
BÄCKSTRÖM, T. (see LANDGREN, S.)
BAKER, R. (see LENNERSTRAND, G.)
BARNES, P.J. (see CONRADSON, T.-B.G.)
BARNES, P.J. (see MAXWELL, D.L.)
BATRA, S., BENGTSSEN, B. & POPPER, L.D. Possible reflection of intracellular calcium binding in the divergent pattern of relaxation in rat and rabbit uterus, 309
BENFENATI, F. (see von EULER, G.)
BENGTSSEN, B., KHAN, A.R. & WEIBER, R. Low potency of Ca antagonists in smooth muscle from different levels of the respiratory tract, 249
BENGTSSEN, B. (see BATRA, S.)
BERG, J.-O. (see EDWALL, B.)
BERG, T. (see JENSEN KJEILEN, J.C.)
BIE, P. (see SCHÜTTEN, H.J.)
BJØRØ, T. (see GRIFFITHS, D.)
BJURSTEDT, H. & EIKEN, O. Dynamic exercise in man as influenced by experimental restriction of blood flow in the working muscles, 339
BJURSTRÖM, S. (see HÄGGENDAL, J.)
BLOMSTRAND, E. & ESSÉN-GUSTAVSSON, B. Influence of reduced muscle temperature on metabolism in type I and type II human muscle fibres during intensive exercise, 569
BORNFELDT, K.E. & ARNQVIST, H.J. Effect of insulin-like growth factor-I on metabolism in bovine mesenteric arteries, 563
BOSCO, C., MONTANARI, G., TARKKA, I., LATTERI, F., IACHELLI, G., FAINA, M., COLLI, R., DAL MONTE, A., LA ROSA, M., RIBACCHI, R., GIOVENALI, P., CORTILI, G. & SAIBENE, F. The effect of pre-stretch on mechanical efficiency of human skeletal muscle, 323
BRENE, S. (see SCHALLING, M.)
BRODIN, L., OHTA, Y. & GRILLNER, S. Retrograde transport of [3 H]aspartate in lamprey reticulospinal neurons, 633
BRODIN, P. (see JENSEN KJEILEN, J.C.)
BROWNSTEIN, M. (see SCHALLING, M.)
BRUNSSON, I. Enteric nerves mediate the fluid secretory response due to *Salmonella typhimurium* R5 infection in the rat small intestine, 609
BUANES, T. (see GROTMOL, T.)
BUANES, T., GROTMOL, T., LANDSVERK, T. & RÆDER, M.G. Ultrastructure of pancreatic duct cells at secretory rest and during secretin-dependent NaHCO_3 secretion, 55
BUGGE, J.F. (see ØSTENSEN, J.)
BUTCHER, P., HEMLIN, M. & SJÖVALL, H. Neural control of electrogenic transport in the rat jejunum; interaction between intramural and adrenergic mechanisms, 235
CARLSON, H. (see THORSTENSSON, A.)
CARLSTEN, J. (see HÄGGENDAL, J.)
CARROLL, J.M. (see SCHALLING, M.)
CEDERQVIST, B. (see WIKLUND, N.P.)
CHERNIAK, N.S. (see PRABHAKAR, N.R.)
CHRISTENSEN, N.J. (see SAVARD, G.)
CLARKE, B. (see CONRADSON, T.-B.G.)
COLLI, R. (see BOSCO, C.)
CONRADSON, T.-B. (see MAXWELL, D.L.)
CONRADSON, T.-B.G., CLARKE, B., DIXON, C.M.S., DALTON, R.N. & BARNES, P.J. Effects of adenosine on autonomic control of heart rate in man, 525
CORTILI, G. (see BOSCO, C.)
DAGERLIND, A. (see SCHALLING, M.)
DAHLIN, I. (see MOSS, I.R.)
DAHLKVIST, H.H. (see ARNQVIST, H.J.)
DALTON, R.N. (see CONRADSON, T.-B.G.)
DANIELSSON, E. (see LANDGREN, S.)
DELBRO, D. (see GUSTAFSSON, B.)
DELBRO, D. (see NIKLASSON, L.G.)
DHOUT, G.K. (see SCHANTZ, P.G.)
DIXON, C.M.S. (see CONRADSON, T.-B.G.)

DIXON, C.M.S. (see MAXWELL, D.L.)

DONNER, K. Adaptation-related changes in the spatial and temporal summation of frog retinal ganglion cells, 479

DUBROVSKY, B. (see LANDGREN, S.)

EDIN, B.B. & VALLBO, Å.B. Twitch contraction for identification of human muscle afferents, 129

EDWALL, B., GAZELIUS, B., BERG, J.-O., EDWALL, L., HELLANDER, K. & OLGART, L. Blood flow changes in the dental pulp of the cat and rat measured simultaneously by laser Doppler flowmetry and local ^{125}I clearance, 81

EDWALL, L. (see EDWALL, B.)

EIKEN, O. (see BJURSTEDT, H.)

EINARSSON, S. (see ERIKSSON, M.)

EINARSSON, S. (see HENRIKSSON, A.)

EKSTRÖM, J. (see NILSSON, B.-O.)

ELAM, J.-H., MARTINELL, S., NIEMANE, D. & ELAM, M. Peridural morphine reduces skin blood flow in the lower limb in man, 629

ELAM, M. (see ELAM, J.-H.)

ELFVIN, L.G. (see LINDH, B.)

ENEROTH, P. (see MELANDER, T.)

ERIKSSON, M., EINARSSON, S., KUNAVONGKRIT, A. & UVNÄS-MOBERG, K. Increase of insulin and decrease of glucagon levels in response to total and fractionated weaning in sows, 387

ERIKSSON, M., LINDÉN, A. & UVNÄS-MOBERG, K. Suckling increases insulin and glucagon levels in peripheral venous blood of lactating dogs, 391

ESSÉN-GUSTAVSSON, B. (see BLOMSTRAND, E.)

VON EULER, C. (see PRABHAKAR, N.R.)

VON EULER, G. & FUXE, K. Neurotensin reduces the affinity of D₂ dopamine receptors in rat striatal membranes, 625

VON EULER, G., FUXE, K., HANSSON, T., BENFENATI, F., AGNATI, L.F. & GUSTAFSSON, J.-Å. Effects of subacute toluene exposure on protein phosphorylation levels in rat frontoparietal and striatal membranes, 113

FAGHER, B., SJÖGREN, A. & MONTI, M. A microcalorimetric study of the sodium-potassium-pump and thermogenesis in human skeletal muscle, 355

FAHRENKRUG, J. (see LINDH, B.)

FAINA, M. (see BOSCO, C.)

FASTBOM, J. & FREDHOLM, B.B. Regional differences in the GTP-dependence of adenosine receptor binding in rat brain, 467

FASTH, S. (see NIKLASSON, L.G.)

FISCHER, J. (see LINDH, B.)

FLEMSTROM, G. (see GRANTSAM, S.V.)

FOLKOW, B. (see SJÖBLÖM, N.)

FOLMERZ, P., HANSSON, R., JONSSON, O., LUNDSTAM, S., PETTERSSON, S., RIPPE, B. & SCHERSTÉN, T. Effects of ischaemia on leakage of albumin in rabbit kidneys, 103

FRANCO-CERECEDA, A. & LUNDBERG, J.M. Potent effects of neuropeptide Y and calcitonin gene-related peptide on human coronary vascular tone *in vitro*, 159

FRANCO-CERECEDA, F., SARIA, A. & LUNDBERG, J.M. Ischaemia and changes in contractility induce release of calcitonin gene-related peptide but not neuropeptide Y from the isolated perfused guinea-pig heart, 319

FREDHOLM, B.B., LINDGREN, E., LINDSTRÖM, K. & NORDSTEDT, C. α -Adrenoceptor stimulation, but not muscarinic stimulation, increases cyclic AMP accumulation in brain slices due to protein kinase C mediated enhancement of adenosine receptor effects, 543

FREDHOLM, B.B. (see FASTBOM, J.)

FREDHOLM, B.B. (see LERNER, U.H.)

FREDHOLM, B.B. (see MOSS, I.R.)

FRIED, G. (see LUNDBERG, J.M.)

FUGL-MEYER, A.R. (see JOHANSSON, C.)

FULLER, R.W. (see MAXWELL, D.L.)

FUXE, K. (see VON EULER, G.)

FUXE, K. (see HÄRFSTRAND, A.)

FUXE, K. (see MELANDER, T.)

GAUTVIK, K. (see GRIFFITHS, D.)

GAZELIUS, B. (see EDWALL, B.)

GERDLE, B. (see JOHANSSON, C.)

GERDLE, B. (see WRETLING, M.L.)

GIOVENALI, P. (see BOSCO, C.)

GRABOWSKA-ÅNDÉN, M. (see ÅNDÉN, N.-E.)

GRADIN, K. & PERSSON, B. Renal and cardiovascular effects of atrial natriuretic peptide in Wistar-Kyoto and spontaneously hypertensive rats during a chronic salt loading, 273

GRANTSAM, S.V., FLEMSTROM, G. & NYLANDER, O. Bicarbonate secretion by the rabbit duodenum *in vivo*: effects of prostaglandins, vagal stimulation and some drugs, 377

GRIFFITHS, D., BJØRØ, T., GAUTVIK, K. & HAUG, E. Melatonin reduces the production and secretion of prolactin and growth hormone from rat pituitary cells in culture, 43

GRILLNER, S. (see BRODIN, L.)

GROTMOL, T., BUANES, T. & RÆDER, M.G. Effect of arterial pH and P_{CO_2} on biliary HCO_3^- secretion in the pig, 183

Grotmol, T. (see BUANES, T.)

GUSTAFSSON, B. & DELBRO, D. Vago-vagal activation of naloxone-sensitive non-adrenergic, non-cholinergic jejunal contractions in the anaesthetized cat, 19

GUSTAFSSON, J.-Å. (see VON EULER, G.)

GUSTAFSSON, L.E. (see WIKLUND, N.P.)

GUSTAVSSON, A. (see HENRIKSSON, A.)

HÄGGENDAL, J., JÖNSSON, L., JOHANSSON, G., BJURSTRÖM, S., CARLSTEN, J. & THORÉN-TOLLING, K.

Catecholamine-induced free radicals in myocardial cell necrosis on experimental stress in pigs, 447

HAMBERGER, B. (see RUDEHILL, A.)

HANNUNIEMI, R., PAJARI-BACKAS, M., OJA, O.S. & OJA, S.S. Transport of leucine, lysine, glycine and aspartate in neuroblastoma C1300 and glioma C6 cells, 575

HANSSON, H.-A. (see JENNISCH, E.)

HANSSON, R. (see FOLMERZ, P.)

HANSSON, T. (see von EULER, G.)

HARALDSSON, B., REGNÉR, L., WEISS, L., JANSSON, I. & HULTBORN, R. Blood-to-tissue transport of albumin in rat fibrosarcomas at two different implantation sites, 93

HARALDSSON, B. (see RIPPE, B.)

HÄRFSTRAND, A., LUNDBERG, J.M. & FUXE, K. Neuropeptide Y receptors in pig spleen, 321

HÄRFSTRAND, A. (see MELANDER, T.)

HAUG, E. (see GRIFFITHS, D.)

HAVAS, E. (see VIITASALO, J.T.)

HELLANDER, K. (see EDWALL, B.)

HELLE, K.B. (see ASK, J.A.)

HELLMAN, B. (see WESSLÉN, N.)

HEMLIN, M., BUTCHER, P. & SJÖVALL, H. Electrogenic and electroneutral components of the sympathetic effect on fluid absorption in the rat jejunum, 599

HEMLIN, M. (see BUTCHER, P.)

HENRIKSSON, A., GUSTAVSSON, A. & EINARSSON, S. A new method for continuous recording of oviductal pressure variations in unrestrained gilts, 303

HENRIKSSON, R. (see JÖNSSON, G.)

HENRIKSSON-LARSEN, K. (see WRETLING, M.L.)

HODE, L. (see LUNDEBERG, T.)

HOHTOLA, E. & JOHANSEN, K. Respiratory modulation of shivering intensity in the pigeon, 215

HÖKFELT, T. (see LINDH, B.)

HÖKFELT, T. (see MEISTER, B.)

HÖKFELT, T. (see MELANDER, T.)

HÖKFELT, T. (see SCHALLING, M.)

HUGHES, J.M.B. (see MAXWELL, D.L.)

HULTBORN, R. (see HARALDSSON, B.)

HULTÉN, L. (see NIKLASSON, L.G.)

ICHELLI, G. (see BOSCO, C.)

JACOBSON, S.H. Blood pressure regulation, peripheral renin activity and aldosterone in patients with pyelonephritic renal scarring, 242

JANSEN, C.T. (see PUNNONEN, K.)

JANSSON, I. (see HARALDSSON, B.)

JENNISCH, E., OLIVECRONA, H. & HANSSON, H.-A. Transient expression of insulin-like growth factor I immunoreactivity in skeletal muscle cells during postnatal development in the rat, 619

JENSEN KJEILEN, J.C., BRODIN, P., AARS, H. & BERG, T. Parotid salivary flow in response to mechanical and gustatory stimulation in man, 169

JOH, T.H. (see SCHALLING, M.)

JOHANNESSEN, A.C. (see SCHÜTTEN, H.J.)

JOHANSEN, K. (see HOHTOLA, E.)

JOHANSSON, C., GERDLE, B., LORENTZON, R., RASMUSSEN, S., REIZ, S. & FUGL-MEYER, A.R. Fatigue and endurance of lower extremity muscles in relation to running velocity at *OBLA* in male orienteers, 203

JOHANSSON, G. (see HÄGGENDAL, J.)

JÖNSSON, H., AUGUSTINSSON, O. & KINDAHL, H. Endotoxin-induced prostaglandin (PGF_{2α}) biosynthesis, fever and miosis in dexamethasone-treated goats, 297

JÖNSSON, G., HENRIKSSON, R., LINDSTRÖM, P. & SUNDSTRÖM, S. β -Adrenoceptor stimulation increases the pH of parotid acinar cells, 283

JÖNSSON, L. (see HÄGGENDAL, J.)

JÖNSSON, O. (see FOLMERZ, P.)

JÖRUM, E. & SHYU, B.C. Course and mode of action of descending system conveying nucleus raphe magnus induced inhibition of flexion reflex in rats, 489

KATZ, A. & SAHLIN, K. Effect of decreased oxygen availability on NADH and lactate contents in human skeletal muscle during exercise, 119

KHAN, A.R. (see BENGTSSON, B.)

KIENS, B. (see SAVARD, G.)

KIIL, F. (see ÖSTENSEN, J.)

KINDAHL, H. (see JÖNSSON, H.)

KOULU, L. (see PUNNONEN, K.)

KUNAVONGKRIT, A. (see ERIKSSON, M.)

LAGERCRANTZ, H. (see PRABHAKAR, N.R.)

LAGERKRANTZ, H. (see MOSS, I.R.)

LANDGREN, S., AASLY, J., BÄCKSTRÖM, T., DUBROVSKY, B. & DANIELSSON, E. The effect of progesterone and its metabolites on the interictal epileptiform discharge in the cat's cerebral cortex, 33

LANDSVERK, T. (see BUANES, T.)

LANGBERG, H. (see ÖSTENSEN, J.)

LA ROSA, M. (see BOSCO, C.)

LATTERI, F. (see BOSCO, C.)

LEHMANN, A. Pentylenetetrazol seizure threshold and extracellular levels of cortical amino acids in taurine-deficient kittens, 453

LENNERSTRAND, G. & BAKER, R. Motoneuronal innervation and mechanical properties of extraocular muscles in the catfish (*Ictalurus punctatus*), 361

LERNER, U.H., SAHLBERG, K. & FREDHOLM, B.B. Characterization of adenosine receptors in bone. Studies on the effect of adenosine analogues on cyclic AMP formation and bone resorption in cultured mouse calvaria, 287

LERNER, U.H. (see RANSJÖ, M.)

LILJA, C. Mitotic activity of duodenal crypt cells in the young Fieldfare (*Turdus pilaris*), 163

LINDÉN, A. (see ERIKSSON, M.)
 LINDGREN, E. (see FREDHOLM, B.B.)
 LINDH, B., LUNDBERG, J.M., HÖKFELT, T., ELFVIN, L.G., FAHRENKRUG, J. & FISCHER, J. Coexistence of CGRP and VIP-like immunoreactivities in a population of neurons in the cat stellate ganglia, 475
 LINDSTRÖM, K. (see FREDHOLM, B.B.)
 LINDSTRÖM, P. (see JÖNSSON, G.)
 LORENTZON, R. (see JOHANSSON, C.)
 LUHTANEN, P., RAHKILA, P., RUSKO, H. & VIITASALO, J.T. Mechanical work and efficiency in ergometer bicycling at aerobic and anaerobic thresholds, 331
 LUNDBERG, J.M., PERNOW, J., FRIED, G. & ÄNGGÅRD, A. Neuropeptide Y and noradrenaline mechanisms in relation to reserpine-induced impairment of sympathetic neurotransmission in the cat spleen, 1
 LUNDBERG, J.M. (see FRANCO-CERECEADA, A.)
 LUNDBERG, J.M. (see HÄRFSTRAND, A.)
 LUNDBERG, J.M. (see LINDH, B.)
 LUNDBERG, J.M. (see RUDEHILL, A.)
 LUNDEBERG, T., HODE, L. & ZHOU, J. A comparative study of the pain-relieving effect of laser treatment and acupuncture, 161
 LUNDQUIST, I. (see SKOGLUND, G.)
 LUNDSTAM, S. (see FOLMERZ, P.)
 MARTINELL, S. (see ELAM, J.-H.)
 MATSUDA, H. (see WIKLUND, N.P.)
 MAXWELL, D.L., FULLER, R.W., CONRADSON, T.-B., DIXON, C.M.S., ABER, V., HUGHES, J.M.B. & BARNES, P.J. Contrasting effects of two xanthines, theophylline and enprofylline, on the cardiorespiratory stimulation of infused adenosine in man, 459
 MEISTER, B., HÖKFELT, T. & STAINES, W. Presence of glutamic acid decarboxylase in some corticotrophin-releasing factor (CRF)-containing neurons of the paraventricular nucleus, 471
 MELANDER, T., FUXE, K., HÄRFSTRAND, A., ENEROTH, P. & HÖKFELT, T. Effects of intraventricular injections of galanin on neuroendocrine functions in the male rat. Possible involvement of hypothalamic catecholamine neuronal systems, 25
 MERCER, J.B. & SIMON, E. Appropriate and inappropriate hypothalamic cold thermosensitivity in Willow Ptarmigan, 73
 MONTANARI, G. (see BOSCO, C.)
 DAL MONTE, A. (see BOSCO, C.)
 MONTI, M. (see FAGHER, B.)
 MOSS, I.R., RUNOLD, M., DAHLIN, I., FREDHOLM, B.B., NYBERG, F. & LAGERKRANTZ, H. Respiratory and neuroendocrine responses of piglets to hypoxia during postnatal development, 533
 NIELSEN, R. Effect of Ba^{2+} and furosemide on K^+ and Rb^+ secretion and absorption in isolated frog skin, 221
 NIEMAND, D. (see ELAM, J.-H.)
 NIKLASSON, L.G., FASTH, S., HULTÉN, L. & DELBRO, D. Effects of acetylcholine and atropine, respectively, on spontaneous contractions of the isolated colonic circular smooth muscle in the rat, 155
 NILSSON, B.-O., EKSTRÖM, J. & ROSENGREN, E. Polyamine metabolism in rat parotid gland after duct ligation, 177
 NILSSON, B.Y. (see SWERUP, C.)
 NILSSON, H. (see SJÖBLOM, N.)
 NORDSTEDT, C. (see FREDHOLM, B.B.)
 NYBERG, F. (see MOSS, I.R.)
 NYLANDER, O. (see GRANTSAM, S.V.)
 OHTA, Y. (see BRODIN, L.)
 OJA, O.S. (see HANNUNIEMI, R.)
 OJA, S.S. (see HANNUNIEMI, R.)
 OLCÉN, M. (see RUDEHILL, A.)
 OLGART, L. (see EDWALL, B.)
 OLIVECRONA, H. (see JENNISCH, E.)
 OSNES, J.-B. (see SKOMEDAL, T.)
 ÖSTENSEN, J., BUGGE, J.F., STOKKE, E.S., LANGBERG, H. & KIIL, F. Mechanism of osmotic diuresis studied by infusion of NaHCO_3 and mannitol in dogs, 397
 ÖSTERBACK, L. (see VIITASALO, J.T.)
 OWMAN, CH. (see STJERNQUIST, M.)
 PAJARI-BACKAS, M. (see HANNUNIEMI, R.)
 PERNOW, J. (see LUNDBERG, J.M.)
 PERSSON, B. (see GRADIN, K.)
 PETTERSON, R. (see SCHALLING, M.)
 PETTERSSON, S. (see FOLMERZ, P.)
 PIPELERS, D. (see WESSLÉN, N.)
 POPPER, L.D. (see BATRA, S.)
 PRABHAKAR, N.R., RUNOLD, M., YAMAMOTO, Y., LAGERKRANTZ, H., CHERNIACK, N.S. & VON EULER, C. Role of the vagal afferents in substance P-induced respiratory responses in anaesthetized rabbits, 63
 PUNNONEN, K., PUUSTINEN, T. & JANSÉN, C.T. Incorporation and distribution of eicosanoid precursor fatty acids in murine fibroblasts in culture, 583
 PUUSTINEN, T. (see PUNNONEN, K.)
 RÆDER, M.G. (see BUANES, T.)
 RÆDER, M.G. (see GROTMOL, T.)
 RAHKILA, P. (see LUHTANEN, P.)
 RAHKILA, P. (see VIITASALO, J.T.)
 RANSJÖ, M. & LERNER, U.H. Inhibitory action of pertussis toxin on parathyroid hormone and prostaglandin E_2 stimulated bone resorption in cultured neonatal mouse calvaria, 315
 RASMUSSEN, S. (see JOHANSSON, C.)
 REDFORS, S. Small intestinal fluid absorption in the rat during haemorrhage and its importance for plasma refill, 429
 REGNÉR, L. (see HARALDSSON, B.)
 REITZ, S. (see JOHANSSON, C.)

RERUP, C. (see SKOGLUND, G.)
 RESCH, F. (see ASK, J.A.)
 RIBACCHI, R. (see BOSCO, C.)
 RICHTER, E.A. (see SAVARD, G.)
 RIPPE, B. & HARALDSSON, B. Fluid and protein fluxes across small and large pores in the microvasculature. Application of two-pore equations, 411
 RIPPE, B. (see FOLMERZ, P.)
 ROBERTHSON, H. (see THORSTENSSON, A.)
 RORSMAN, P. (see WESSLÉN, N.)
 ROSENGREN, E. (see NILSSON, B.-O.)
 RUDHEILL, A., OLCÉN, M., SOLLEVI, A., HAMBERGER, B. & LUNDBERG, J.M. Release of neuropeptide Y upon haemorrhagic hypovolaemia in relation to vasoconstrictor effects in the pig, 517
 RUNOLD, M. (see MOSS, I.R.)
 RUNOLD, M. (see PRABHAKAR, N.R.)
 RUSKO, H. (see LUHTANEN, P.)
 SAHLBERG, K. (see LERNER, U.H.)
 SAHLIN, K. (see KATZ, A.)
 SAIBENE, F. (see BOSCO, C.)
 SALTIN, B. (see SAVARD, G.)
 SANDER-JENSEN, K. (see SCHÜTTEN, H.J.)
 SARIA, A. (see FRANCO-CERECEDA, A.)
 SAVARD, G., STRANGE, S., KIENS, B., RICHTER, E.A., CHRISTENSEN, N.J. & SALTIN, B. Noradrenaline spillover during exercise in active versus resting skeletal muscle in man, 507
 SCHALLING, M., DAGERLIND, A., BRENE, S., PETTERSON, R., BROWNSTEIN, M., CARROLL, J.M., JOH, T.H. & HÖKFELT, T. Localization of mRNA for phenylethanolamine *N*-methyltransferase (PNMT) using *in situ* hybridization, 631
 SCHANTZ, P.G. & DHOOT, G.K. Coexistence of slow and fast isoforms of contractile and regulatory proteins in human skeletal muscle fibres induced by endurance training, 147
 SCHERSTÉN, T. (see FOLMERZ, P.)
 SCHIANDER, I. (see SKOMEDAL, T.)
 SCHÜTTEN, H.J., JOHANNESSEN, A.C., TORP-PEDERSEN, C., SANDER-JENSEN, K., BIE, P. & WARBERG, J. Central venous pressure - a physiological stimulus for secretion of atrial natriuretic peptide in humans? 265
 SHYU, B.C. (see JØRUM, E.)
 SIMON, E. (see MERCER, J.B.)
 SJÖBLOM, N., NILSSON, H. & FOLKOW, B. Post-tetanic potentiation of the vascular neurogenic response in rats, 499
 SJÖGREN, A. (see FAGHER, B.)
 SJÖVALL, H. (see BUTCHER, P.)
 SKOGLUND, G., AHREN, B., RERUP, C., STENSTRÖM, A. & LUNDQUIST, I. Glycogen and glycogen-hydrolysing lysosomal enzyme activity in mouse liver: effects of fasting, adrenoceptor antagonism and insulin-induced hypoglycaemia, 257
 SKOMEDAL, T., SCHIANDER, I., AASS, H. & OSNES, J.-B. Qualitative characteristics of the mechanical response in rat papillary muscles to increase in extracellular calcium concentration, 347
 SOLLEVI, A. (see RUDHEILL, A.)
 STAINES, W. (see MEISTER, B.)
 STENE-LARSEN, G. (see ASK, J.A.)
 STENSTRÖM, A. (see SKOGLUND, G.)
 STJERNQUIST, M. & OWMAN, CH. Interaction of noradrenaline, NPY and BIP with the neurogenic cholinergic response of the rat uterine cervix *in vitro*, 553
 STOKKE, E.S. (see ØSTENSEN, J.)
 STRANGE, S. (see SAVARD, G.)
 SUNDSTRÖM, S. (see JÖNSSON, G.)
 SWERUP, C. & NILSSON, B.Y. Dependence of thermal thresholds in man on the rate of temperature change, 623
 TARKKA, I. (see BOSCO, C.)
 THORÉN-TOLLING, K. (see HÄGGENDAL, J.)
 THORSTENSSON, A. & CARLSON, H. Fibre types in human lumbar back muscles, 195
 THORSTENSSON, A. & ROBERTHSON, H. Adaptations to changing speed in human locomotion: speed of transition between walking and running, 211
 THULESIUS, O., ANGELO-KHATTAR, M. & ALI, M. The effect of prostaglandin synthesis inhibition on motility of the sheep ureter, 51
 TORP-PEDERSEN, C. (see SCHÜTTEN, H.J.)
 UVNÄS-MOBERG, K. (see ERIKSSON, M.)
 VALLBO, Å.B. (see EDIN, B.B.)
 VAN DE WINKEL, M. (see WESSLÉN, N.)
 VIITASALO, J.T., ÖSTERBACK, L., ALEN, M., RAHKILA, P. & HAVAS, E. Mechanical jumping power in young athletes, 139
 VIITASALO, J.T. (see LUHTANEN, P.)
 WARBERG, J. (see SCHÜTTEN, H.J.)
 WEIBER, R. (see BENGTSSON, B.)
 WEISS, L. (see HARALDSSON, B.)
 WESSLÉN, N., PIPELERS, D., VAN DE WINKEL, M., RORSMAN, P. & HELLMAN, B. Glucose stimulates the entry of Ca^{2+} into the insulin-producing β cells but not into the glucagon-producing α_2 cells, 230
 WIKLUND, N.P. & GUSTAFSSON, L.E. On the nature of endogenous purines modulating cholinergic neurotransmission in the guinea-pig ileum, 11
 WIKLUND, N.P., CEDERQVIST, B., MATSUDA, H. & GUSTAFSSON, L.E. Adenosine can excite pulmonary artery, 477
 WRETLING, M.L., GERDLE, B. & HENRIKSSON-LARSEN, K. EMG: a non-invasive method for determination of fibre type proportion, 627
 YAMAMOTO, Y. (see PRABHAKAR, N.R.)
 ZHOU, J. (see LUNDEBERG, T.)



Subject index

Abdominal reflex, 19
Acceleration, 211
Acid amyloglucosidase, 257
Acid production, 589
Acupuncture, 161
A-delta fibre, 623
Adenine nucleotides, 11
Adenosine, 11, 287, 525, 533
Adenosine deaminase, 11
Adenosine infusion, 459
5'-Adenylate deaminase, 11
Adrenaline, 533
Adrenergic, 235
 α -Adrenergic, 599
Adrenergic nerves, 553
 α_1 -Adrenergic receptors, 599
 α_2 Adrenergic receptors, 599
 α -Adrenoceptors, 1
Adrenoceptor antagonism, 257
Adrenoceptors, 283
 125 I-Albumin, 103
Albumin clearance, 93
Albumin extraction, 93
 α -Aminoisobutyric acid, 563
Aminopyrine, 589
Anaerobic threshold, 331
Analgesia, 489
ANP, 273
Antidromic stimulation, 371
Arachidonic acid, 583
Arteries, 499
Aspartate, 575
Atrophy, 177
Atrial natriuretic peptide, 265
Atropine, 525
Atropine resistant, 19
Augmented breath, 63
Autonomic innervation, 553
Autonomic tone, 525
Avian temperature, 73
Avian thermoregulation, 73

Ba^{2+} , 221
B-HT 920, 157
Bicarbonate secretion, 377
Bicycle ergometer, 331
Biphasic fever, 297
Blood flow, 81, 93, 629
Blood gases, 119
Blood pressure, 273, 525
Body temperature, 73
Bone, 287

Bone resorption, 287
Bovine mesenteric artery, 563
Breathing responses, 533

Ca, 249
Ca antagonists, 249
 Ca^{2+} entry, 230
Calcitonin-gene-related peptide, 371
Calcium, 309
Calorimetry, 355
cAMP, 235, 589
Capillary permeability, 93, 411
Capsaicin, 371
Carbacholine, 543
Cat, 33, 81
Catecholamines, 25, 447, 517, 525
Cell culture, 43, 575
Cells, 575
Central venous pressure, 265
C fibre, 623
C fibres, 63
CGRP, 475
Children, 139
Cholinergic nerves, 553
Clonazepam, 33
Cold threshold, 623
Computer simulation, 183
Convection, 411
Cortisol, 297
Cyclic AMP, 287

[3 H]D-aspartate, 633
Deceleration, 211
Dental pulp, 81
Development, 619
Dexamethasone, 207
Diacyl glycerol, 543
Diclofenac sodium, 51
Diffusion, 411
Dihomo- γ -linolenic acid, 583
Dimensions, 211
5,5-Dimethyloxazolidine-2,4-dione (DMO), 283
Dog, 397
Dopamine autoreceptors, 157
Dopamine receptors, 625
Dorsolateral funiculus, 489
D-1 receptors, 157
D-2 receptors, 157
Duct ligation, 177
Dynamic exercise, 339

Eicosapentaenoic acid, 583

Electrical brain stimulation, 489
 Electromyography, 215, 627
 Endotoxin, 297
 Endurance, 203
 Energy consumption, 331
 Energy metabolism, 355
 Enkephalin, 533
 Enteric nervous system, 235, 609
 Epilepsy, 453
 Ethacrynic acid, 397
 Exercise, 507
 Exercise hyperpnoea, 339
 Experimental neoplasia, 93
 Extensor digitorum muscle, 129
 Extracellular amino acids, 453
 Extracellular calcium, 347
 Extraocular muscles, 361

Fatigue, 203
 Fibre type proportion, 627
 Fibre types, 147
 Fibroblasts, 583
 Free radicals, 447
 Frog, 479
 Frog skin, 221
 Frontoparietal cortex, 113
 Furosemide, 221

Galanin, 25
 Ganglion cell, 479
 Gastro-intestinal motility, 19
 GH, 25
 Glioma cells, 575
 Glomerular filtration rate, 242
 Glucagon, 387
 Glucagon-producing α_2 cells, 230
 Glucose, 109, 230, 387
 [^{14}C]Glucose, 109
 Glucose metabolism, 109, 563
 Glycine, 575
 Glycogen, 257
 Glycolytic intermediates, 119
 Glycolytic metabolism, 569
 Goat, 297
 G-proteins, 467
 Growth hormone, 43

Haemorrhage, 429, 517
 Heart rate, 459, 525
 Hexamethonium, 609
 High energy phosphates, 119
 High sodium diet, 273
 Hippocampus, 467
 Human, 242
 Human erector spinae, 195
 Human hand, 129
 Human heart, 439

Human locomotion, 211
 Human muscle afferents, 129
 Human skeletal muscle, 147
 Human skin, 629
 Hypertension, 242
 Hypoglycaemia, 257
 Hypothalamic thermosensitivity, 73
 Hypothalamus, 25
 Hypoxia, 119, 533

Ictalurus punctatus, 361
 Immunohistochemistry, 619
 Indomethacin, 51, 609
 Inositol phosphates, 543
 Inotropic response, 347
 Insulin, 109, 387, 563
 Insulin-like growth factor I, 563, 619
 Insulin-producing β cells, 230
 Interictal epileptiform discharge, 33
 Intertendinous connections, 129
 Intestinal absorption, 599
 Intestinal fluid secretion, 609
 Intestinal transport, 235
 Intracellular Ca^{2+} , 589
 Intracellular pH, 283
 Intraluminal pressure, 391
 Iodine clearance, 81
 'Irritant' receptors, 63
 Ischaemia, 103
 Isthmus, 391

Jumping, 139

Kidney, 103
 Kidney disease, 242
 Kitten, 453
 K^+ absorption, 221
 K^+ secretion, 221

Lactation, 391
 Lactotroph, 43
 Lanthanum, 249
 Laser Doppler flowmetry, 81
 Leakage of albumin, 103
 Leucine, 575
 LH, 25
 Lidocaine, 609
 Light-adaptation, 479
 Liver, 257
 Locomotor strategies, 211
 Low power laser, 161
 Lysine, 575
 Lysosomal enzyme activities, 257

Macromolecules, 411
 Magnesium, 355
 Male and female muscles, 195

Man, 459, 525
 Mathematical model, 183
 Mechanical efficiency, 331
 Mechanical power, 139
 Mechanical work, 331
 Melatonin, 43
 Microsomes, 309
 Microtransducers, 391
 Minute ventilation, 459
 Miosis, 297
 Mitochondria, 309
 Morphine, 19
 Motoneuronal innervation, 361
 Motor activity, 157
 mRNA, 631
 Mucosal infection, 609
 Mucosal inflammation, 609
 Muscle, 203, 355, 507
 Muscle afferent classification, 129
 Muscle blood flow, 339
 Muscle chemoreflexes, 339
 Muscle contraction, 119
 Muscle efficiency, 323
 Muscle elasticity, 323
 Muscle fatigue, 339, 627
 Muscle fibre composition, 195
 Muscle fibre size, 195
 Muscle fibre types, 569
 Muscle mechanics, 323
 Muscle temperature, 569
 Myocardial cell necrosis, 447
 Myoepithelial cells, 169
 Myofibrillar ATPase, 147
 Myosin, 147
 Myotube, 619

NaHCO_3 secretion, 55
 Na^+/H^+ ion exchanger, 183
 Naloxone, 489
 Naltrexone, 533
 Natriuresis, 273
 Nerve stimulation, 81
 Neural transmission, 499
 Neuroblastoma cells, 575
 Neurokinin A, 371
 Neuropeptide Y, 1, 517
 Neuropeptides (NPY, VIP), 553
 Neurotensin, 625
 Neurotransmission, 11
 Noradrenaline, 499, 507, 533, 543
 Normal temperature (37°C) and heart rate (1 Hz), 439
 $[\text{^3H}]$ NPA, 625

Opioids, 19
 Orthostasis, 525
 Ouabain, 355

$P_{\text{a}, \text{CO}_2}$, 459
 Para-chlorophenylalanine, 489
 Parietal cell, 589
 Parotid gland, 177, 283
 Patch clamp, 230
 Paw, 411
 Pentylenetetrazol, 453
 Peridural morphine, 629
 Periodontal receptors, 169
 $\text{PGF}_{2\alpha}$, 297
 pH, 55
 Phorbol esters, 543
 Phosphocreatine, 119
 Phrenic activity, 63
 Physical training, 147
 Pig, 55
 Pigeon, 215
 Piglets, 533
 Pigs, 447
 Plasma volume, 429
 Pneumotachography, 215
 PNMT, 631
 Positive tissue pressure, 339
 Potassium, 242, 355
 Pre- and post-junctional receptors, 553
 Pregnandione, 33
 Pregnanolone, 33
 Pressor response, 339
 Progesterone, 33
 Prolactin, 25, 43
 Propranolol, 525
 Prostacyclin, 51
 Prostaglandins, 377
 Prostaglandin $F_{2\alpha}$, 51
 Protein phosphorylation, 113
 Protein synthesis, 563
 Proton pump, 55, 183
 Putrescine, 177

Rabbit duodenum, 377
 Radio-immunoassay, 265
 Rat, 25, 81, 113
 Rat aorta, 109
 Rat heart, 347
 Rats, 499
 Receptive field, 479
 α -Receptor, 235
 α -Receptors during β -blockade, 439
 Receptor autoradiography, 467
 Recycling, 55
 Redox state, 119
 Relaxation, 309
 Renal function, 242
 Renin-angiotensin, 429
 Reserpine, 1
 Respiration, 215
 Respiratory smooth muscle, 249

Restraint experimental stress, 447
Reticulospinal neurons, 633
Retina, 479
Running orienteering, 203

Saliva, 169
Salmonella typhimurium, 609
Secretagogues, 589
Secretin, 55, 183
Secretion, 169
Shivering, 215
SHR, 273
Skeletal age, 139
Skeletal muscle, 411, 619
Skin temperature, 459
Small intestinal fluid transport, 429
Smooth muscle, 11, 51, 309
Sodium, 242
Sodium-potassium-pump, 355
Somatomedin C, 619
Sows, 387
SP antagonist, 63
Speed adaptation, 211
Spermidine, 177
Spermine, 177
Splanchnic nerves, 599
Spleen, 1, 517
Sport, 139
Starvation, 257
Stellate ganglia, 475
Stretch-shortening cycle, 323
Striatum, 113
Substance P, 63, 371
Substance P infusion, 81
8-*p*-Sulphophenyltheophylline, 11
Sympathetic nerves, 429
Sympathetic nervous system, 507

Tail-flick test, 161
Taurine deficiency, 453
Temperature control, 73

Temperature regulation, 215
Terbutaline, 249
Theophylline, 459
Thermogenesis, 355
Thermostimulator, 623
Thromboxane A₂, 51
Tight junction, 397
 α -Tocopherol and selenium, 447
Toluene, 113
Training, 139
Transmural nerve stimulation, 499
Transport, 575
Trigeminal nerve, 371
Tropomin, 147
TSH, 25
Tubular reabsorption, 397
Twitch contraction, 129
Two-pore heterogeneity, 411
 α -Type response, 347
 β -Type response, 347

Ultrastructure, 55
Ureter, 51
Ursodeoxycholic acid, 183
Uterine cervix, 553
Uterus, 309

Vagal nerve, 19
Vagal stimulation, 377
Valsalva, 525
Vascular control, 1
Vascular smooth muscle, 109, 563
Veins, 499
Vesicles, 55
VIP, 475
Visual summation, 479

Warm threshold, 623
Weaning, 387

Zinc, 447

